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No.118 position mutation of *Bacillus subtilis* alkaline protease and its thermal stable enzyme
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Patent Number(s): -CN1113953-A

Inventor(s): ZHU L, CHAO Y, ZHAO Y

Patent Assignee(s) and Code(s): INST BIOPHYSICS CHINESE ACADEMY OF SCI (BIOP-Non-standard)

Derwent Primary Accession Number: 1997-416319 [J]

Abstract: Mutation on the 118th position of *Bacillus subtilis* basic proteinase the 118th asparagine is substituted by serine; Asn (118) ser, after mutation the gene expressing product is a kind of proteinase, which is different from the natural *Bacillus subtilis* basic proteinase; the thermal stability of the former is much higher than the latter, thus overcoming the inactivation while heating shortage of natural basic proteinase which is used as one component of detergent for laundry and the industry for clearing the protein dirt.

Show Documentation Abstract

International Patent Classification: C12N-009/56; C12N-015/55

Derwent Class Code(s): D16 (Fermentation industry); D25 (Detergents other than soap)

Derwent Manual Code(s): D05-A02C; D11-B02

Patent Details:

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Application Details:

-CN1113953-A CN103678 01 Jun 1994

Priority Application Information and Date:

CN105878 01 Jun 1994

Additional Information

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